ETHERNET SWITCH

24/32-Port 10/100 Mbps Rackmount
Ethernet Switch

ES3124R
ES3132R

Instruction Guide

* ES3132R shown
* Actual product may vary from photo

StarTech.com

FCC COMPLIANCE STATEMENT

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation between the equipment and receiver.

• Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

• Consult the dealer or an experienced radio/TV technician for help.

Technical Support

The following technical resources are available for this StarTech.com product:

On-line help:

We are constantly adding new information to the *Tech Support* section of our web site. To access this page, click the *Tech Support* link on our homepage, **www.startech.com**. In the tech support section there are a number of options that can provide assistance with this card.

Knowledge Base - This tool allows you to search for answers to common issues using key words that describe the product and your issue.

FAQ - This tool provides quick answers to the top questions asked by our customers.

Downloads - This selection takes you to our driver download page where you can find the latest drivers for this product.

Call StarTech.com tech support for help: **1-519-455-4931**
Support hours: Monday to Friday 9:00AM to 5:00PM EST (except holidays)

Warranty Information

This product is backed by a two-year warranty. In addition StarTech.com warrants its products against defects in materials and workmanship for the periods noted below, following the initial date of purchase. During this period, the products may be returned for repair, or replacement with equivalent products at our discretion. The warranty covers parts and labor costs only. StarTech.com does not warrant its products from defects or damages arising from misuse, abuse, alteration, or normal wear and tear.

Limitation of Liability

In no event shall the liability to StarTech.com Ltd. (or its officers, directors, employees or agents) for any damages (whether direct or indirect, special, punitive incidental, consequential, or otherwise), loss of profits, loss of business, or any pecuniary loss, arising out of related to the use of the product exceed the actual price paid for the product.

Some states do not allow the exclusion or limitation of incidental or consequential damages. If such laws apply, the limitations or exclusions contained in this statement may not apply to you.

Technical Specifications

Standards	IEEE 802.3 10BaseT and 802.3u 100BaseTX
10/100Mbps UTP Ports	24 x RJ-45 Auto-MDI/MDI-X (ES3124R) 32 x RJ-45 Auto-MDI/MDI-X (ES3132R)
Switching Architecture	Store and Forward
MAC Address	4K
Buffer Memory	768 KByte (ES3124R) 1 MByte (ES3132R)
Filter/Forward Rate	148,800 packets/sec
Nway Auto-negotiation	All ports
Full/Half Duplex	All ports
Dimensions	17.3 x 4.72 x 1.75 in. (440 x 120 x 45 mm)
Weight	5.3 lb (2.4 kg)
Power	100~240V AC, full range internal power supply
Operating Temperature	32-131ºF (0-55ºC)
Operating Humidity	10-95% (non-condensing)
Certifications	FCC Class B, CE Mark & C-Tick

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Introduction

Thank you for purchasing a StarTech.com 10/100 Mbps rackmount Ethernet switch. This high performance switch provides you with 24 (ES3124R) or 32 (ES3132R) Fast Ethernet ports to segment network traffic, extend connection distance, and convert data packets between different transmission speeds. Using store-and-forward switching, auto-negotiation, and auto-MDI/MDI-X technologies, these switches relieve bandwidth bottlenecks and provide faster response times for your network.

Features

- Complies with IEEE 802.3 10BaseT Ethernet and 802.3u 100BaseTX Fast Ethernet standards

- Supports 10BaseT/100BaseTX and Full Duplex/Half Duplex auto-negotiation on all ports

- Uses advanced IEEE 802.3x-compliant flow control (Full Duplex) and backpressure (Half Duplex) to reduce congestion and prevent packet loss

- Supports auto-MDI/MDI-X detection on all ports

- Supports store-and-forward switching architecture

- Designed for standard 19" rackmounts

- Backed by StarTech.com's two-year warranty

Before You Begin

WARNING! The Fast Ethernet switch must be installed and operated in an environment with temperatures between **32-131°F (0-55ºC)** and humidity levels of **10-95% (non-condensing)**. Make sure that the switch is kept away from heating sources and that the vents at the side of the device are not blocked. Do not place any objects on top of the device. Make sure that no water or moisture enters the unit. If necessary, use a dehumidifier to reduce humidity near the device.

Requirements

The length of UTP cable between the switch and a connected device can not exceed **300ft (100m)**. To reach 100 Mbps transfer speeds, your network cables will need to comply with **EIA/TIA 568** specifications and **Category 5 (or higher)** standards. StarTech.com carries a wide range of networking cables to suit your needs. Visit www.startech.com and click on the "Networking" tab for more product information.

Contents

This package should contain:

- 1 x Fast Ethernet switch

- 1 x power cord

- Rackmount accessories

Installation

1. Plug the power connector into the power socket on the back of the unit. Plug the other end into an available power source. The green Power LED on the front of the switch should now be lit.

2. Plug one end of your network cable into an open RJ-45 port on the switch and plug the other end into your network device.

NOTE: Since all ports on the device are auto-MDI/MDI-X ports, you can use straight-through cables to connect to both workstations and other switches/hubs.

Monitoring Your Device

The LEDs on the front of the switch are your best indication of the switch's activity. There is one power LED per switch. There is one LNK/ACT LED and one 10/100M LED per port.

LED	Color	Status	Description
PWR (Power)	Green	On Off	Power is supplied No power
LNK/ACT (Link/Activity)	Green	On Flashing Off	Valid link established Data packets received No link established
10/100M	Yellow	On Off	Port is running at 100Mbps Port is not connected or running at 10Mbps